	Gas on Gas	Air on Air	Gas on Waste Gas	Air on Waste Gas
Space required in chamber above checkerwork by Yesmann's formula, which was used in obtaining the height of the	5m³ 32 1200°	8m³ 51 1200°	5m³ 19 1600°	7m³ 58 1600°
1 -{-*at* = gas temperature factor	5.404 28 m³	5.404 45 m³	6.872 35 m³	6.872 52 m³
0,2=	827	2115	1272	2712
B — width of chamber =	3m	5 m	3 m	5 m
B^2=	12.13	33.21	12.13	33.21
BH=-	14.543	39.852	19408	53.135
Q?-i-Bn= .	0	0	0	0
$<\sqrt{Q_t} * + BH = X =$	0.3845 3.40	0.3758 3.53	0.4032 3.40	0.3710 3.53
h = *AX*	1 m	1 m	1 m	1 m
Rise of arch over chamber	0 m	0 m		
Checker to skewback	1 m LSO	0 m		
Chamber above checkerwork: The frictional resistance to the flow of the gases will be about equivalent to the full volume	0.016		9 466	
L — length			2.554	
8 = perimeter = (2 X 5 . 763) +				14 026
$_w$ = area = 3. 483X1.			4.354	
co = area = 5. 763X1.				7.203
SL+u= 9.466-^-4.354 = ..			2.174	
fL-r-co = 14.026-T-7				1.947
^ = Qjj -T- co = m per sec	6.60	6.39	8.19	7.23
AO — specific weight gas .	1.125	1.293	1.32	1.32
A;=A_0-KH-<*0 kg per m³	0.208 2	0.239 3	0.192 1	0.1921